



March 21, 2017

#5B24624-BG33

Crystal Weaver
Environmental Specialist
NMOCD District II
811 South First St
Artesia, NM 88210

SUBJECT: WORK PLAN FOR INCIDENT 2RP-4051, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E NMPM,
API# 30-015-43018, EDDY COUNTY, NEW MEXICO

Dear Crystal Weaver:

On behalf of Matador Resources Company (Matador), Souder Miller & Associates (SMA) is pleased to submit a work plan summarizing the planned soil remediation for the release site located at the Paul 25 24S 28E RB #221H in Eddy County, New Mexico. The purpose of the work plan is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the release that occurred on the production pad on December 25, 2016.

SMA responded at the request of Matador Resources Company, to assess and delineate the release of production fluids associated with Paul 25 24S 28E RB #221H well location. The release was initially reported to NMOCD by Matador Resources Company, on December 25, 2016 and was a result of human error. The table below summarizes information regarding the release. Results of the assessment, delineation are described in the following report.

Table 1: Release information and Site Ranking					
Name	Paul 25 24S 28E RB #221H				
Location	Incident Number	API Number	Section, Township, Range		
		2RP-4051	30-015-43018	NW/NE (Unit D)	Section 25
Estimated Date of Release	December 25, 2016				
Date Reported to NMOCD	December 25, 2016, March 9, 2017				
Reported by	Catherine Green				
Land Owner	Private				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Human Error				
Released Material	Crude Oil				
Released Volume	~5 bbls Crude Oil				
Recovered Volume	2 bbls Crude Oil				
Net Release	3 bbls Crude Oil				

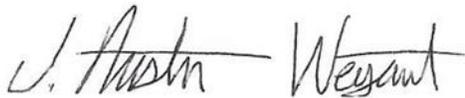


Nearest Waterway	1.4 miles north of the location
Depth to Groundwater	Estimated to be 39 feet
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	20
SMA Response Dates	Initial: 12/27/2016
Subcontractors	Diamondback
Disposal Facility	Lea Land
Estimated Yd3 Contaminated Soil Excavated and Disposed	30

A copy of the C-141 Initial is attached in Appendix B. For questions or comments pertaining to the release or the attached work plan, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Cynthia Gray, CHMM
Senior Scientist

SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-4051

MATADOR RESOURCES COMPANY

PAUL 25 24S 28E RB #221H
UL D, SECTION 25, T24S R28E, NMPM
API #30-015-43018
EDDY COUNTY, NM



Prepared for:
Matador Resources Company
PO Box 1933,
Roswell, NM 88202

Prepared by:
Souder, Miller & Associates
201 S. Halagueno
Carlsbad, NM 88221
575-689-7040

March 21, 2017
SMA Reference
5B24624 BG33

Table of Contents

1.0	Introduction.....	4
2.0	Site Ranking, Land Status, and Jurisdiction	4
3.0	Assessment and Initial Results	4
4.0	Soil Remediation Work Plan.....	4
5.0	Conclusions and Recommendations.....	5
6.0	Closure and Limitations.....	5

Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Location Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary Chloride Field Screening Results

Table 3: Summary of Laboratory Analyses

Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

1.0 Introduction

On behalf of Matador Resources Company, Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and proposed remediation for a release associated with the Paul 25 24S 28E RB #221H location API# 30-015-43018. The site is in Section 25, Township 24S, Range 28E NMPM, Eddy County, New Mexico, on private property. Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking, Land Status, and Jurisdiction

The release site is located approximately 1.3 miles east of the Willow Lake, with an elevation of approximately 2,947 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 39 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Two wells are located within a one mile radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

3.0 Assessment and Initial Results

On December 27, 2016, SMA field personnel were on site to assess the release area using a Photo Ionization Detector (PID), and a mobile chlorides titration kit EPA method 9045D meter. The potentially affected area was found to be approximately 250 feet long and 35 to 3 feet wide. The site delineation samples were at surface initially. Following a four-inch scrape of the effected area, on December 30, 2016, further delineation occurred. Specific sample locations for all samples are depicted on Figure 2 (Site and Sample Location Map). Field screening sample results are detailed in Table 2. On 1/13/2017 further samples were collected for lab confirmation. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Total Chlorides using EPA Method 300.0.

4.0 Soil Remediation Work Plan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Excavation will occur to depths of up to 1 foot bgs sufficient to remove the impacted materials to NMOCD requirements as indicated by the sample results in Table 2. Affected soils will be removed from these areas before closure samples are collected at the final depth of excavation and from the sidewalls. Approximately 30 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 20: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 100 ppm TPH.

When the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the field analyses is included in Table 2. Laboratory reports are included in Appendix A.

6.0 Closure and Limitations

The scope of our services consisted of the performance of release assessment, initial delineation sampling and field screening, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Cynthia Gray, CHMM
Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Location Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Chloride Field Screening Results

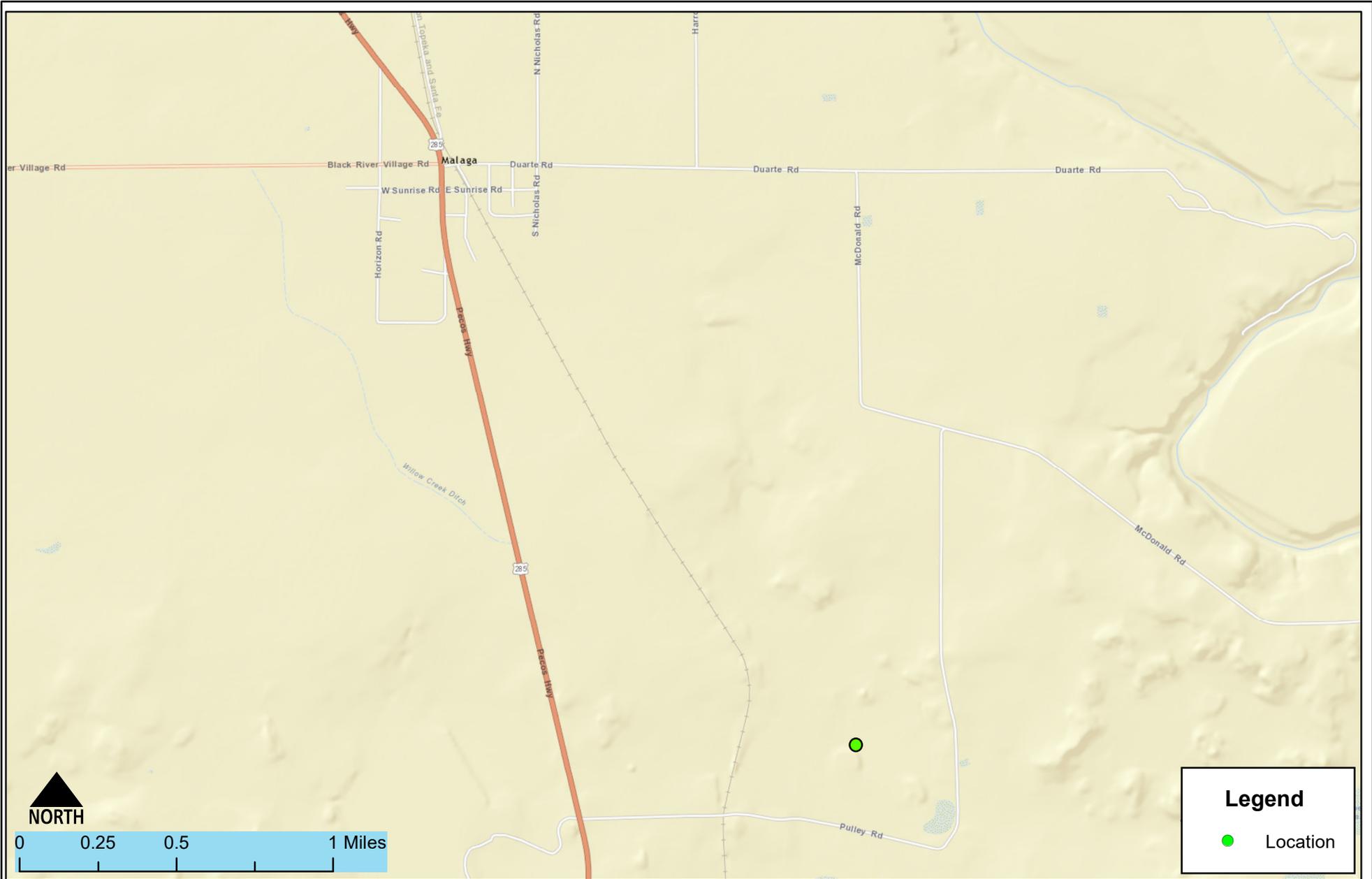
Table 3: Summary of Laboratory Analyses

Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

FIGURE 1 VICINITY MAP



Detailed Site and Sample Map
 Paul 221H- Matador
 Malaga, New Mexico

Figure 1

Date Saved: 12/5/2016	By: _____	Date: _____	Revisions	Descr: _____
Copyright 2015 Souder, Miller & Associates - All Rights Reserved	By: _____	Date: _____		Descr: _____

Drawn	<u>Lucas Middleton</u>
Checked	_____
Approved	_____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains

FIGURE 2

DETAILED SITE AND SAMPLE LOCATION MAP



Detailed Site and Sample Map
 Paul #221H- Matador Resources
 Malaja , New Mexico

Figure 2

Date Saved: 12/28/2016	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
Copyright 2015 Souder, Miller & Associates - All Rights Reserved				

Drawn	<u>Lucas Middleton</u>
Checked	_____
Approved	_____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains

TABLE 1

RELEASE INFORMATION AND SITE RANKING

Table 1: Release information and Site Ranking					
Name	Paul 25 24S 28E RB #221H				
Location	Incident Number	API Number	Section, Township, Range		
	2RP-4051	30-015-43018	NW/NE (Unit D)	Section 25	T24S, R28E NMPM
Estimated Date of Release	December 25, 2016				
Date Reported to NMOCD	December 25, 2016				
Reported by	Catherine Green				
Land Owner	Private				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Human Error				
Released Material	Crude Oil				
Released Volume	~5 bbls Crude Oil				
Recovered Volume	~2 bbls Crude Oil				
Net Release	3 bbls Crude Oil				
Nearest Waterway	1.4 miles north of the location				
Depth to Groundwater	Estimated to be 39 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	20				
SMA Response Dates	Initial: 12/27/16				
Subcontractors	TBD				
Disposal Facility	Lea Land				
Estimated Yd3 Contaminated Soil Excavated and Disposed	~30				

TABLE 2

SUMMARY OF CHLORIDE FIELD SCREENING RESULTS

Table 1: Summary of Field Screening Results

Paul Production Pad
 Release
 12/25/16, 2/20/17

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	Chlorides Results	PID Results
12/27/2016	9:00	L1	Surface	2185	1,200
12/27/2016	9:00	L2	Surface	1876	1,600
12/27/2016	9:00	L3	Surface	1968	1,200
12/27/2016	9:00	L4	Surface	1785	1,300
2/20/2017	10:00	L2-2	2'	>200	BDL
2/20/2017	10:00	L2-12	12'	1682	BDL



TABLE 3

SUMMARY OF LABORATORY ANALYSES

Table 3: Summary of Laboratory Analyses

Analytical Report-1701739	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
1701739-001	L1	1/13/2017	Surface	N/A	N/A	2600	17000	150
1701739-002	L2	1/13/2017	Surface	88	1.2	5700	28000	320
1701739-003	L3	1/13/2017	Surface	N/A	N/A	4900	28000	330
1701739-004	L4	1/13/2017	Surface	140	1.7	7400	29000	130
1702A52-001	L2-2	2/20/2017	2'	>0.024	>0.094	>4.7	36	56
1702A52-002	L2-12	2/20/2017	12'	>0.023	>0.094	>4.7	>10	1600

APPENDIX A

LABORATORY ANALYTICAL

REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 02, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Paul Pad

OrderNo.: 1702A52

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1702A52

Date Reported: 3/2/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-2

Project: Paul Pad

Collection Date: 2/20/2017 10:00:00 AM

Lab ID: 1702A52-001

Matrix: SOIL

Received Date: 2/23/2017 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	56	30		mg/Kg	20	2/28/2017 10:50:01 PM	30454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	36	9.6		mg/Kg	1	3/1/2017 11:01:16 AM	30399
Surr: DNOP	93.0	70-130		%Rec	1	3/1/2017 11:01:16 AM	30399
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2017 12:03:22 AM	30385
Surr: BFB	85.3	54-150		%Rec	1	2/28/2017 12:03:22 AM	30385
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/28/2017 12:03:22 AM	30385
Toluene	ND	0.047		mg/Kg	1	2/28/2017 12:03:22 AM	30385
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2017 12:03:22 AM	30385
Xylenes, Total	ND	0.094		mg/Kg	1	2/28/2017 12:03:22 AM	30385
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	2/28/2017 12:03:22 AM	30385

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 6
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1702A52

Date Reported: 3/2/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-12

Project: Paul Pad

Collection Date: 2/20/2017 10:00:00 AM

Lab ID: 1702A52-002

Matrix: SOIL

Received Date: 2/23/2017 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1600	75		mg/Kg	50	3/2/2017 12:02:19 AM	30454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/28/2017 1:49:46 PM	30399
Surr: DNOP	103	70-130		%Rec	1	2/28/2017 1:49:46 PM	30399
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2017 12:29:40 AM	30385
Surr: BFB	90.5	54-150		%Rec	1	2/28/2017 12:29:40 AM	30385
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	2/28/2017 12:29:40 AM	30385
Toluene	ND	0.047		mg/Kg	1	2/28/2017 12:29:40 AM	30385
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2017 12:29:40 AM	30385
Xylenes, Total	ND	0.094		mg/Kg	1	2/28/2017 12:29:40 AM	30385
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	2/28/2017 12:29:40 AM	30385

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A52

02-Mar-17

Client: Souder, Miller & Associates

Project: Paul Pad

Sample ID	MB-30454	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	30454	RunNo:	41047					
Prep Date:	2/28/2017	Analysis Date:	2/28/2017	SeqNo:	1286795	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-30454	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	30454	RunNo:	41047					
Prep Date:	2/28/2017	Analysis Date:	2/28/2017	SeqNo:	1286796	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A52

02-Mar-17

Client: Souder, Miller & Associates

Project: Paul Pad

Sample ID LCS-30399	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 30399		RunNo: 41033							
Prep Date: 2/27/2017	Analysis Date: 2/28/2017		SeqNo: 1285372		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	63.8	116			
Surr: DNOP	4.7		5.000		93.9	70	130			

Sample ID MB-30399	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 30399		RunNo: 41033							
Prep Date: 2/27/2017	Analysis Date: 2/28/2017		SeqNo: 1285373		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		108	70	130			

Sample ID LCS-30440	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 30440		RunNo: 41070							
Prep Date: 2/28/2017	Analysis Date: 3/1/2017		SeqNo: 1286611		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.6	70	130			

Sample ID MB-30440	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 30440		RunNo: 41070							
Prep Date: 2/28/2017	Analysis Date: 3/1/2017		SeqNo: 1286612		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A52

02-Mar-17

Client: Souder, Miller & Associates

Project: Paul Pad

Sample ID MB-30385	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 30385		RunNo: 41013							
Prep Date: 2/24/2017	Analysis Date: 2/27/2017		SeqNo: 1284702		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.5	54	150			

Sample ID LCS-30385	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 30385		RunNo: 41013							
Prep Date: 2/24/2017	Analysis Date: 2/27/2017		SeqNo: 1284703		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	76.4	125			
Surr: BFB	1000		1000		103	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A52

02-Mar-17

Client: Souder, Miller & Associates

Project: Paul Pad

Sample ID	MB-30385	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	30385	RunNo:	41013					
Prep Date:	2/24/2017	Analysis Date:	2/27/2017	SeqNo:	1284760	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	80	120			

Sample ID	LCS-30385	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	30385	RunNo:	41013					
Prep Date:	2/24/2017	Analysis Date:	2/27/2017	SeqNo:	1284761	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	75.2	115			
Toluene	0.99	0.050	1.000	0	99.4	80.7	112			
Ethylbenzene	0.98	0.050	1.000	0	98.3	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	100	79.2	115			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1702A52

RcptNo: 1

Received by/date: LM 02/23/17
 Logged By: Andy Jansson 2/23/2017 9:20:00 AM
 Completed By: Andy Jansson 02/23/17
 Reviewed By: [Signature] 02/24/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 5.0° C? Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

Paul Pad

Project #:

Project Manager:

Sampler:

On Ice: Yes No

Sample Temperature: 2.8

Container Type and #

Preservative Type

HEAL No.

1702-A5Z

-001

-002

Date Time Matrix Sample Request ID

2-20-17 10:00 50.7 L2-2

L2-12

Date: 2-22-17 9:30 Relinquished by: [Signature]

Date: 2-23-17 09:30 Relinquished by: [Signature]

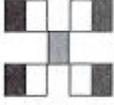
Received by: [Signature] Date Time

Received by: [Signature] Date Time

Remarks:

Analysis Request

BTEX + MTBE + TPH (Gas only)	<input checked="" type="checkbox"/>
BTEX + MTBE + TMBs (8021)	<input checked="" type="checkbox"/>
TPH 8015B (GRO / DRO / MRO)	<input checked="" type="checkbox"/>
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	<input checked="" type="checkbox"/>
Anions (Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	<input checked="" type="checkbox"/>
8081 Pesticides / 8082 PCBs	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

APPENDIX B

FORM C141 INITIAL

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Ammended Initial C-141 - for date stamp please see original Initial C-141

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Matador Resources	Contact Catherine Green	
Address 500 N Main St Ste One Roswell NM 88201	Telephone No. 575-623-6601	
Facility Name Paul 25 24S 28E RB 221H	Facility Type Production Battery	
Surface Owner Fee	Mineral Owner Fee	API No.30-015-43018

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	25	24S	28E	359	FNL	217	FWL	Eddy

Latitude 32.19484171 Longitude -104.0487226

NATURE OF RELEASE

Type of Release Oil	Volume of Release ~5BBLs	Volume Recovered ~2BBLs
Source of Release Hauler left thief hatch open on oil tank	Date and Hour of Occurrence Dec 25 2016 8:00am	Date and Hour of Discovery Dec 25 2016 8:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Telephoned Artesia NMOCD hotline. Left message	
By Whom? Jason Thibodeaux	Date and Hour Dec 25 2016 8:45 sm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Oil Hauler did not properly close hatch. Lease operator discovered open hatch, closed it, called for vacuum truck to vacuum up excess fluid on production pad.

Describe Area Affected and Cleanup Action Taken.*

Oil spilled on ground. Soil will be sampled for contaminants. Contaminated soil will be removed and replaced after work plan is approved.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>Catherine Green</i>	Approved by Environmental Specialist <i>Cynthia Wee</i>	
Printed Name: Catherine Green	Approval Date: <i>3/21/17</i>	Expiration Date:
Title: Regulatory Analyst	Conditions of Approval: <i>This is an ammended Initial C-141. Operator recalculated spill volume. System entry will be updated accordingly.</i>	
E-mail Address: cgreen@matadorresources.com	Attached <input type="checkbox"/>	
Date: March 9, 2017 Phone: 575-627-2453		

* Attach Additional Sheets If Necessary

** Original Initial C-141 has COA's + initial correspondence scanned with it.*

APPENDIX C

OSE DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03833 POD1	C	ED	2	1	2	26	24S	28E	589014	3562545		660	96	55	41
C 03358 POD1	C	ED	1	4	1	26	24S	28E	588416	3562116		1287	135		

Average Depth to Water: **55 feet**

Minimum Depth: **55 feet**

Maximum Depth: **55 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 589664.55

Northing (Y): 3562429.4

Radius: 1500

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.